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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/708,038	11/08/2000	Zaheer Khalfan	1084-7/MBE	8013
38735	7590 02/15/2005		EXAMINER	
DIMOCK STRATTON LLP			RODRIGUEZ, JOSEPH C	
	STREET WEST SUITE 32 ON M5H 3R3	202, BOX 102	ART UNIT	PAPER NUMBER
CANADA			3653	
			DATE MAILED: 02/15/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	å (
	09/708,038	KHALFAN, ZAHEER			
Office Action Summary	Examiner	Art Unit			
	Joseph C Rodriguez	3653			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. R. 1.136(a). In no event, however, may a reply within the statutory minimum of thin itiod will apply and will expire SIX (6) MON atute, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communications BANDONED (35 U.S.C. § 133).	on.		
Status					
1) Responsive to communication(s) filed on _					
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3) Since this application is in condition for allocal closed in accordance with the practice under			is		
Disposition of Claims					
 4) Claim(s) 1-22 is/are pending in the applicat 4a) Of the above claim(s) is/are without 5) Claim(s) 8-14 is/are allowed. 6) Claim(s) 1-3,6,7 and 15-22 is/are rejected. 7) Claim(s) 4 and 5 is/are objected to. 8) Claim(s) are subject to restriction and 	drawn from consideration.				
Application Papers					
9) The specification is objected to by the Exam 10) The drawing(s) filed on 08 November 2000 Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	is/are: a)⊠ accepted or b)☐ the drawing(s) be held in abeya rrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121	(d).		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have beer reau (PCT Rule 17.2(a)).	Application No received in this National Stage			
Attachment(s)	∧ □	Summan (DTO 442)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 			
S Patent and Trademark Office					

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DETAILED ACTION

Specification

Claim Objections

Regarding claim 1, the language "can be" (2nd line from end) is objected as it may render the claims indefinite as it is unclear whether the features subsequent to the "can be" language are a necessary part of the claimed invention. Applicant must positively recite the features of the claimed invention. Examiner thus recommends amending all instances of "can be" to "is" in the claim language. During examination, this "can be" limitation has been interpreted as an unnecessary part of the claimed invention unless otherwise noted.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Csulits (US 5,640,463).

Regarding claims 1-3, Csulits teaches a device (Fig. 2) comprising a light source with an ultraviolet component (lamp described in col. 5, ln. 25-33); a detector (202) for detecting diffusely reflected UV light from a paper product (col. 5, ln. 1-15) and generating a signal (col. 3, ln. 30-col. 4, ln. 38); an optical filter (Fig. 2, filter 206

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positioned before detector 202; col. 3, ln. 60-64) and an instrument for measuring a level of the signal (microcontroller 212; col. 4, ln. 20-col. 6, ln. 25 teaches the *comparing* of the signal to certain levels to determine validity of paper bills). Further, Applicant is respectfully reminded that claim language consisting of functional language and/or intended use phrasing is given little, if any, patentable weight as the apparatus must merely be capable of functioning, or being used, as claimed. See MPEP 2112.02, 2114. This is especially relevant with regards to the limitations in the preamble and the functional language in the claims. That is, the signal from the detection device is certainly capable of being compared to a reference level to determine whether the material contains less than or more than a selected amount of lignin. Applicant is also respectfully reminded that the material (i.e., material color) or article worked upon by the apparatus does not limit apparatus claims. See MPEP 2115.

Regarding claim 6, it is implicit from the filter types that the light source emits light outside the ultraviolet range (col. 3, ln. 60-65).

Regarding claim 7, the further feature of an equation defining the selected amount of lignin fails to add patentable weight to the claimed invention as the amount of lignin is simply part of a functional limitation and, moreover, Csulits is capable of performing said functional limitation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 15-18 and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Csulits in view of Eason (US 5,862,919).

Csulits as set forth above teaches all that is claimed except for expressly teaching a conveyor for conveying the material to a collection bin with an air blast ejection device downstream of said detection device, near a terminal end of said conveyor, for receiving an ejection signal from the comparing device. Eason, however, teaches these features in an automated sorting system including a conveyor with an ejection system connected to a comparing device for sorting objects (Fig. 1, col. 3, ln. 9-col. 5, ln. 22). Moreover, Eason teaches that this system is useful in high speed sorting applications for removing unacceptable objects (col. 1, ln. 5-10). Further, Csulits is merely silent on how the paper bills are conveyed and how the unacceptable bills are handled. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the invention of Csulits with the features taught by Eason above to enable high speed sorting of the unacceptable bills.

Claims 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over 15-18 and 21-22 as applied to claims above, and further in view of what is well known in the art.

Csulits in view of Eason as set forth above teach all that is claimed except for expressly teaching said ejection device including an air nozzle receiving air from a

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compressor, wherein said nozzle is controlled by a solenoid valve. Eason, however, already describes an ejection device that includes solenoid-actuated puff-jets that discharge compressed gas (col. 4, In. 31-64), thus Eason is merely silent on the compressor feature. Further, this compressor feature can be regarded as inherent from the teaching of *compressed* gas and, moreover, if not regarded as inherent, Examiner takes Official Notice that this feature is well known in the sorting arts. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the invention of Csulits in view of Eason with the specific ejection device features taught above as these are well known features in the sorting arts that assist in removing unacceptable objects during high-speed sorting operations.

Allowable Subject Matter

Claims 8-14 are allowed.

Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any references not explicitly discussed above but made of record are considered relevant to the prosecution of the instant application.

Here, the newly cited references are regarded as helpful in defining the prior art with regards to lignin testing and ultraviolet testing systems.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph C Rodriguez whose telephone number is **703-308-8342**. The examiner can normally be reached on M-F during normal business hours (9 am – 6 pm, EST).

The **Official** fax phone number for the organization where this application or proceeding is assigned is **703-872-9326** (After-Final **703-972-9327**).

The examiner's **UNOFFICIAL Personal fax number** is **703-746-3678**.

Further, the examiner is tentatively scheduled to move in April 2005 and the contact info at the new location will be as follows:

April 2005, Personal telephone number is 571-272-6942

April 2005, UNOFFICIAL Personal fax number is 571-273-6942

Further, information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system.

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Should you have questions on access to the Private PMR system, contact the Electronic Business Center (EBC) at 866-217-9197 (Toll Free).

Alternatively, inquiries of a general nature or relating to the status of this application or proceeding can also be directed to the **Receptionist** whose telephone number is **703-308-1113**.

Signed by Examiner Joseph Rodriguez

Jcr

February 14, 2005